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APPLICATION NO.	CATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/760,209 01/12/2001		2/2001	Michael Gough	60333-302802	2681
22918	7590	04/28/2004	EXAMINER		
PERKINS C	OIE LLP	SORRELL, ERON J			
P.O. BOX 21			ART UNIT	PAPER NUMBER	
MENLO PAI	RK, CA 94	026	ARTUNII	PAPER NUMBER	
				2182	\mathcal{C}
			DATE MAILED: 04/28/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application	on No.	Applicant(s)					
			09	GOUGH, MICHAEL					
	Office Action Summary	Examine	,	Art Unit					
		Eron J So		2182					
Period for	The MAILING DATE of this commur Reply	nication appears on the	cover sheet with the	correspondence addre	SS				
A SHOF THE MA - Extension after SIX - If the pe - If NO pe - Failure t Any repl	RTENED STATUTORY PERIOD F AILING DATE OF THIS COMMUN ons of time may be available under the provisions (6) MONTHS from the mailing date of this committed for reply specified above is less than thirty (3 riod for reply is specified above, the maximum storely within the set or extended period for reply y received by the Office later than three months to the provision of the provi	IICATION. s of 37 CFR 1.136(a). In no evenunication. 30) days, a reply within the state tatutory period will apply and were will, by statute, cause the app	ent, however, may a reply be utory minimum of thirty (30) dill expire SIX (6) MONTHS fro lication to become ABANDON	timely filed ays will be considered timely. on the mailing date of this commined to the comm	unication.				
Status									
1)□ R	esponsive to communication(s) file	ed on							
·									
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition	n of Claims								
4a 5)□ C 6)⊠ C 7)□ C	Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-28 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
Application	n Papers								
10)⊠ Th Al R	ne specification is objected to by the drawing(s) filed on 31 August 20 pplicant may not request that any objected the oath or declaration is objected the specific points.	001 is/are: a) \square acce ection to the drawing(s) by the correction is require	be held in abeyance. So ed if the drawing(s) is c	See 37 CFR 1.85(a). Objected to. See 37 CFR ²					
Priority un	der 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.									
Attachment(s)								
_	of References Cited (PTO-892)		4) Interview Summa						
2) Notice of 3) Information	of Draftsperson's Patent Drawing Review (I tion Disclosure Statement(s) (PTO-1449 or lo(s)/Mail Date	•	Paper No(s)/Mail		i2)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-3,7,8,12,13,19-21,25,26,28 are rejected under 35
 U.S.C. 102(e) as being anticipated by Johnson (U.S. Patent No. 6,681,116).
- 3. Referring to system claim 1, method claim 19, and apparatus claim 28, Johnson teaches a system, method and apparatus for accelerating data transfer between networked databases comprising:
- a plurality if databases coupled by a network (see lines 9-30 of column 6); and
- at least one laser unit coupled to each database for communicating data between the databases via free space by way

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of a laser beam at a rate faster than that which the network is capable (see lines 9-30 of column 6).

- 4. Referring to system claim 2 and method claim 20, Johnson discloses the network comprises a router (see items labeled "ROUTER" in figure 3).
- 5. Referring to system claim 3 and method claim 21, Johnson teaches the network is an Ethernet (see lines 32-39 of column 1).
- 6. Referring to system claim 7 and method claim 25, Johnson discloses the laser unit comprises a receiver and a transmitter (see lines 23-41 of column 2).
- 7. Referring to system claim 8 and method claim 26, Johnson teaches the databases are positioned in a single housing (see lines 1-7 of column 6).
- 8. Referring to system claims 12 and 13, Johnson teaches the laser units communicate the data between the databases upon a rate of the communication exceeding a predetermined amount to a

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single address in one of the database (see lines 50-59 of column 1).

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 10 and 11 rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson.
- 11. Referring to claims 10 and 11, Johnson fails to explicitly set forth the limitation that the housing has a substantially hemispherical configuration or a substantially spherical configuration.

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the system of Johnson such that the housing is substantially hemispherical or substantially spherical as the shape of the housing is a matter of mere design choice.

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12. Claims 4-6,14,16-18, and 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson in view of Bloom (U.S. Patent No. 6,323,980).

13. Referring to system claims 4-6 and method claims 22-24,
Johnson fails to teach each a plurality of laser units being
mounted on the database and move with two degrees of freedom.

In an analogous system and method, Bloom teaches a plurality of laser units being mounted on computers that move with two degrees of freedom (see lines 1-20 of column 2, lines 39-55 of column 3 and paragraph bridging columns 3 and 4).

It would have been obvious to one of ordinary skill in the art at the time of applicant's invention to modify the system and method of Johnson with the above teachings of Bloom. One of ordinary skill in the art would have been motivated to make such modification in order to provide a clear line of sight between the laser transceivers as suggested by Bloom (see paragraph bridging columns 3 and 4).

14. Referring to claim 14, Bloom teaches the laser units are movably positioned into alignment prior to communicating (see paragraph bridging columns 3 and 4).

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It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the system and method of Johnson with the teachings of Bloom in order to ensure the proper transceivers are able to communicate.

15. Referring to claim 16 and 17, Bloom teaches the laser beam of the laser unit is traced prior to the laser units communicating the data in order to determine whether the laser units are capable of communicating the data and wherein an alternate path for the laser beam is determined if the trace is unsuccessful (see paragraph bridging columns 5 and 6).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the system of Johnson with the above teachings of Bloom. One of ordinary skill in the art at the time of the applicant's invention would have been motivated to make such modification in order to ensure the transmitter and receiver are physically capable of communicating via the laser unit.

16. Referring to claim 18, Johnson discloses carrying out communication with the network if the communication is unable to be carried out via the laser units (see lines 31-45 of column 6).

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17. Claims 9 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson in view of Pasanen (U.S. Patent No. 6,587,450).

18. Referring to system claim 9 and method claim 27, Johnson fails to teach the housing has a reflective surface positioned therein for reflecting the laser beam between laser units.

Pasanen teaches using a reflective surface to carry out transmission of laser beams from a source to a destination (see paragraph bridging columns 4 and 5).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the system and method of Johnson with the above teachings of Pasanen. One of ordinary skill in the art would have been motivated to make such modification in order to maximize the possibilities a source and a destination can communicate.

19. Claim 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Johnson in view of Bloom as applied to claim 14 above and further in view of Wood, Jr. (U.S. Patent No. 6,466,771).

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20. Referring to claim 15, The combination of Johnson in view of Bloom fails to teach the limitation of movably positioning the laser unit based on a look-up table.

Wood, Jr. teaches a system wherein a look-up table is used for positioning the wireless devices for communication (see lines 28-40 of column 3).

It would have been obvious to one of ordinary skill in the art at the time of the applicant's invention to modify the combination of Johnson and Bloom with the above teachings of Wood, Jr. One of ordinary skill in the art would have been motivated to make such modification in order to quickly determine the positions of the destination.

Conclusion

21. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following references have been cited to further show the state of the art as it pertains to networks comprising laser units:

- U.S. Patent No. 5,953,507 to Cheung et al. is cited as it shows a network with both wireless and Ethernet interfaces; and
- U.S. Patent No. 6,701,092 to Doucet et al. is cited as it shows a laser based communications network.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eron J Sorrell whose telephone number is 703 305-7800. The examiner can normally be reached on Monday-Friday 9:00AM - 5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A Gaffin can be reached on 703 308-3301. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

EJS

April 15, 2004

IENEREY GAFFIN

SUPE VISURY PATENT EXAMINER

TECHNOLOGY CENTER 2100